

**METHOD AND APPARATUS FOR GENERATING A COHERENT LASER BEAM  
AND METHOD FOR MAKING A HOLOGRAM TO BE USED THEREIN**

ABSTRACT OF THE DISCLOSURE

5       An apparatus for generating a coherent laser beam from an  
emission of a series of diode lasers, comprising at least one  
row of source diodes and a system for transforming the  
primary light emission emitted by the source diodes into  
secondary coherent light emission, wherein the system for  
10   transforming the primary emission into secondary coherent  
light emission includes a hologram, which comprises an image  
of an interference pattern of the primary light emission and  
the secondary coherent light emission, so that when  
illuminating the hologram with the primary light emission,  
15   the hologram reflects the secondary coherent light emission  
and in that a mirror is provided in the path of the secondary  
coherent light emission, which reflects at least some of the  
secondary coherent light emission via the hologram to the  
diode lasers.